

IEEE Journal of Selected Areas in Sensors



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IEEE Journal of Selected Areas in Sensors Special Section on

Biomaterials and Electronics as an Enabling Technology for Wearable Devices and IoT Devices

Wearable devices and internet-of-things (IoT) devices have become increasingly important. They possess the potential to monitor the wellbeing of individuals and enable treatment at the point of care. These devices can also help with the clinical diagnosis and treatment by medical professionals. In this regards, the design and fabrication of such devices are also of great interest to the research and clinical communities. Particularly, we are interested in biomaterials and electronics that enable the development of wearables and IoT devices. For instance, the surface chemistry and material properties can significantly impact the type of biomarkers that a wearable electrochemical sensor can selectively detect. The types of fabrication techniques adopted can also influence the material and mechanical characteristics of flexible sensors for their intended use on human skin. In addition, the selection of electronic materials may create interesting optical properties of sensors that utilize electromagnetic waves for monitoring purposes. Therefore, we invite submission of original research and review papers that focus on biomaterials and electronics that are relevant to wearable and IoT devices.

The topics and scope of this special issue will be related but not limited to the following categories:

- Wearable Devices
- IoT Devices
- Hardware Sensors Design
- · Materials and Chemistry for Sensors
- Optical Properties of Sensors
- Mechanical Properties of Sensors
- Health Monitoring Systems
- Applications of Sensors for Telemedicine
- Sensor Reliability
- Sensor Fabrication and Optimization

Solicited and invited papers shall undergo the standard IEEE Journal of Selected Areas in Sensors (JSAS) peer review process. All manuscripts must be submitted on-line, via the *IEEE Manuscript Central*TM, see http://mc.manuscriptcentral.com/jsas. When submitting, please indicate in the "Manuscript Type" roll down menu that the paper is intended for the "<title>" Special Section. Authors are particularly encouraged to **suggest names of potential reviewers** for their manuscripts in the space provided for these recommendations in *Manuscript Central*. For manuscript preparation and submission, please follow the guidelines in the *Information for Authors* at IEEE Journal of Selected Areas in Sensors web page, http://www.ieee-sensors.org/journals

Deadlines:

· Manuscript Submission:

· Notification of Acceptance:

Final Manuscript published in IEEE Xplore:

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April 1, 2025

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